T. R. WAY.

Stovepipe Ventilator

No. 205,985. Patented July 16, 1878.

Fig. 1.

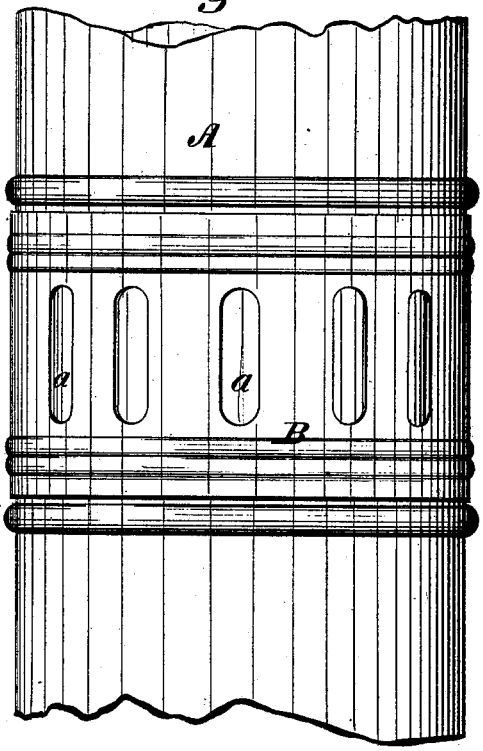


Fig. 2.

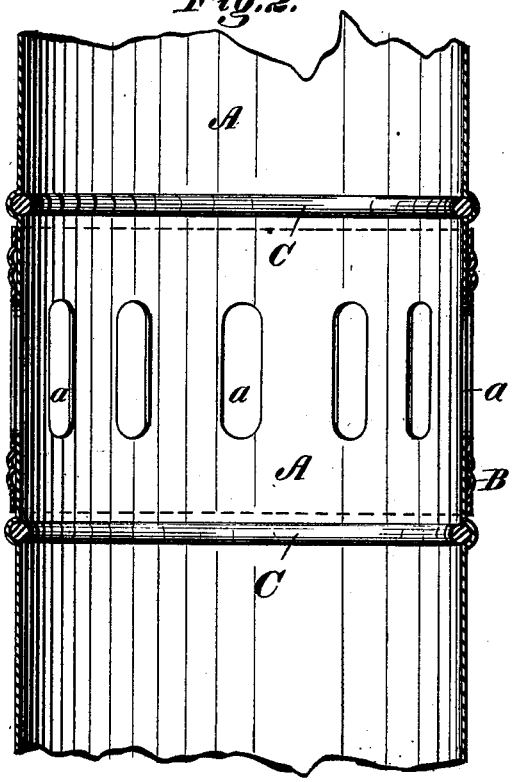
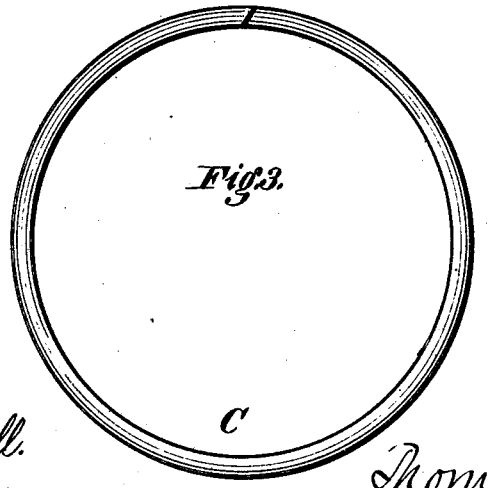


Fig. 3.



Witnesses:

Donn S. Twitchell.

S. M. Maddux

Inventor:

Thomas R. Way

By Dodgerson

Attys.

UNITED STATES PATENT OFFICE.

THOMAS R. WAY, OF SPRINGFIELD, OHIO, ASSIGNOR OF ONE-HALF HIS RIGHT TO ANGUS McKAY AND P. H. ELLWSORTH, OF HOT SPRINGS, ARK.

IMPROVEMENT IN STOVE-PIPE VENTILATORS.

Specification forming part of Letters Patent No. **205,985**, dated July 16, 1878; application filed June 1, 1878.

To all whom it may concern:

Be it known that I, THOMAS R. WAY, of Springfield, in the county of Clarke and State of Ohio, have invented certain Improvements in Stove-Pipe Ventilators, of which the following is a specification:

This invention relates to that class of stove-pipe ventilators which consist of a perforated rim or register encircling a short correspondingly-perforated pipe, so that by rotating the ring the perforations may be opened or closed at will; and the invention consists in seating within the pipe two stiff metal rings, for the purpose of maintaining the pipe in a true circular form, so as to insure an easy action of the ring and admit of the ventilator-pipe being easily fitted to the stove-pipe at all times.

Ventilators of the class above described have long been in common use; but it has been found in practice that, consisting, as they do, of a short length of pipe greatly weakened by the formation of numerous and large perforations therein, they are easily flattened or bent out of a true circular form, in which case it becomes impossible or difficult to move the ring and extremely difficult to make connection with the stove-pipe. It is to overcome this difficulty and prevent the ventilator from being flattened or otherwise bent out of shape, either before or during the time of its application, that my improvement is designed.

Figure 1 represents a side elevation of my ventilator; Fig. 2, a vertical central section of the same; Fig. 3, a plan view of one of the stiffening-rings.

A represents the ventilator pipe or body, provided with perforations *a*. B represents the outside ring or band, provided with corresponding perforations, and C my strengthening rings or stays, arranged one in each end, and seated in grooves formed in the pipe.

As shown in the drawings, the rings are made of sufficient size to be stiff and unyielding, and are fitted tightly within the pipe in such manner as to prevent the same from being sprung or bent in the least. It is preferred, as shown in Fig. 3, to sever each ring on one side, to admit of its being sprung into place, which is accomplished by lapping its ends and compressing it sufficiently to spring it within the pipe, and then allow it to expand into the ring, groove, or seat. In order that the rings may be thus inserted when intended to fit closely, it is necessary that they should be severed obliquely, as represented in Fig. 3. Instead, however, of inserting and securing the rings in the manner described, they may be otherwise applied, provided they give to the pipe a firm and rigid support.

Having thus described my invention, what I claim is—

1. In a stove-pipe ventilator, the internal rings C C, applied substantially as and for the purpose described.

2. The stove-pipe ventilator provided with the internal grooves or seats, having the round rings seated therein, in the manner shown and described.

THOMAS R. WAY.

Witnesses:

A. P. LINN COCHRAN,

ROBT. C. RODGERS.